

Attachment 1

## Guide Requirements on Bulgarian Mapping Organizations

### BACKGROUND

The collection of post-1952 military topographic maps of Bulgaria has been given very high priority within the US intelligence community. Topographic maps are essential for determining the precise location of targets in relation to missile launching sites. In order to support map collection activities, detailed information is required on Bulgarian mapping organizations, programs, and personnel.

This requirement is submitted as a guide for interrogation of sources having a knowledge of mapping and related activities in Bulgaria. Likely sources would be cartographers, draftsmen, geodesists, geographers, geologists, photogrammetrists, surveyors, and other personnel engaged in the field of surveying and mapping or utilizing topographic maps in their work. Although individual sources probably will not have a detailed knowledge of the complete mapping cycle from the establishment of geodetic control on through photogrammetric or field topographic surveys and map compilation, drafting, reproduction and distribution, each may be expected to have an intimate knowledge of at least one aspect of the cycle.

Bulgaria is participating in the unified topographic mapping program as set forth at the geodetic conference of the USSR and the European Satellites held in Sofia, Bulgaria, in 1952. Target date for completion of topographic maps at scales of 1:25,000; 1:50,000; 1:100,000; 1:200,000; and 1:500,000 is 1960. The Military Topographic Service (Voennotopografaska Sluzhba -- VTS) is the responsible organization for producing military topographic maps in Bulgaria. The Administration for Geodesy and Cartography (Upravlenie po Geodesia i Kartografiya -- UK) is the policy-making and coordinating agency for geodetic and civilian cartographic activities, and its subordinate organization, "Geoplanproekt", is the responsible organization for establishing geodetic control and producing large-scale topographic maps to meet the needs of the national economy. The VTS and UK presumably are cooperating on various phases of the mapping program.

### REQUIREMENTS

#### 1. Voennotopografaska Sluzhba -- VTS (Military Topographic Service)

a. Locational data. (VTS reportedly moved from its old headquarters at 9 Ruski Blvd., Sofia, to the town of Troyan in 1954.) Provide the pinpoint location of VTS headquarters, any branch offices, and map distribution centers or storage facilities; sketch maps of building sites or complexes; general floor plans of buildings; and detailed floor plans of map storage facilities.

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b. Security data. Provide a detailed description of security control measures employed for safeguarding topographic maps and trig lists within the headquarters organization, any branch offices, map distribution centers and storage facilities. Indicate manner of disposal of waste or damaged maps, and whether members of the char force have access to map storage rooms. Describe any weak points in the security system which might permit removal of maps from the premises without detection.

c. Biographic data. Provide detailed biographic data on personnel with particular attention to key personnel and those personnel having access to topographic maps or trig lists. Include data on political orientation, professional background, physical characteristics, personal habits and weaknesses, opportunities for travel within or outside the Bloc, and names and addresses of relatives or friends residing outside the Soviet Bloc.

d. Mapping programs. Indicate progress made on the production of new military topographic map series at 1:25,000; 1:50,000 and 1:100,000 employing the standard Russian map symbolization, format and grid system. Indicate whether the maps are merely revisions of pre-1952 series, or new compilations based on recent surveys. If the latter, indicate type of survey--photogrammetric, planetable, or other.

e. Organizational structure. Prepare a table of organization and indicate the function, work program, operating procedures, types of equipment, and names and number of personnel of the individual production units.

2. Upravlenie po Geodesia i Kartografiya -- UGK. (Administration for Geodesy and Cartography.)

a. Location and subordination. (UGK was subordinate to the Council of Ministers until January, 1957, and then to the Ministry of Communal Economy, Public Works and Roads until that ministry was abolished in 1959. Its most recent address is given as ploshad Slavaykov 4, Sofia.) Indicate the current location and subordination of UGK.

b. Organizational data. Describe the organizational structure of UGK and outline the division of mapping responsibility between its subordinate organizations, "Geoplanproekt", "Kartproekt", and Kartno-geopriborna Fabrika (Cartographic and Geodetic Instruments Factory). In its role as coordinator for mapping and geodesy, what control, if any, does UGK exercise over VTS and the Central Laboratory of Geodesy of the Bulgarian Academy of Sciences?

c. Security data. In the event that topographic maps or trig lists are utilized or stored at UGK, provide security data as in (1b) above.

d. Biographic data. See (1c) above.

e. Mapping and geodetic programs. Outline the current program for establishment of geodetic control and production of topographic maps, and indicate the responsible organization, and the status of completion for each project.

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3. "Geoplanproekt". (A civilian surveying and topographic mapping organization subordinate to URM.)

a. Locational data. (Headquarters are located at Sofia, Stamboliyski 15, and branch offices in Pleven, Plovdiv, Ruse, Varna, and possibly other towns.) Confirm headquarters location, and give pinpoint location of branch offices.

b. Security data. See (1b) above.

c. Biographic data. See (1c) above.

d. Mapping and geodetic programs. Indicate the progress made on completion of 1st-, 2nd-, 3rd-, and 4th-order triangulation and leveling, and conversion to the Russian datums (Pulkovo horizontal datum, Kronstadt vertical datum and Krasovskiy reference ellipsoid); and outline the current program for production of large-scale topographic maps (1:5,000 and 1:10,000); indicate type of survey (photogrammetric, planetable, or other) on which the maps are based; and indicate the status of completion of the mapping program.

e. Organizational structure. See (1e) above.

4. Kartno-geopriborna Fabrika (Cartographic and Geodetic Instruments Factory. This plant presumably prints all maps drafted by "Geoplanproekt" and "Kartproekt" as well as other civilian organizations.

a. Locational data. Confirm location of plant at Blvd. "9 Septemvri" 219, Sofia. If topographic maps are printed and/or stored at the plant, prepare a floor plan of the print shop and map storage rooms in detail.

b. Security data. See (1b) above.

c. Biographic data. See (1c) above.

5. Users of Topographic Maps. (It is believed that personnel in various civilian mapping and research organizations occasionally use military topographic maps in their work--i.e. personnel from "Kartproekt"; the Central Laboratory of Geodesy of the Bulgarian Academy; the Geographic, Geologic and Soils Institute of the Bulgarian Academy; the Administration for Geologic Research; "Glavproekt"; "Khidroenergooproekt"; "Mihail Pushkarov" Soils Institute; and Sofia University.)

Indicate name and location of civilian organizations permitted to borrow or retain files of military topographic maps; indicate how maps are obtained and upon whose authority; identify the organization and building from which the maps are obtained; describe the means by which maps are delivered; describe the security measures employed for controlling and safe-guarding the maps while in transit and while at the borrowing organization; indicate for what purpose the maps are used; and provide biographic data on personnel in the various borrowing organizations who are known to have access to the maps. If any of the borrowing organizations are engaged in the compilation and production of maps, indicate the mapping responsibilities of each, the mapping programs underway, the type of surveys upon which the maps are based, and whether the organization drafts and prints its own maps or sends them to "Kartproekt" and Kartno-geopriborna Fabrika.

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